



# The Sizewell C Project

## 10.19 Main Development Site - Operational Siting and Height Parameters

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Revision: 1.0  
Applicable Regulation: Regulation 5(2)(q)  
PINS Reference Number: EN010012

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October 2021

Planning Act 2008  
Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009



Table 2.1: Parameters for buildings, plant and structures on the main platform.

Building/structure details	Maximum height (mAOD)
<b>Parameter Zone 1A-1 (nuclear islands)</b>	
Fuel building x 2 (Work No. 1A(a)(ii))	47
Fuel building hall x2 (Work No. 1A(a)(iii))	27
Boron storage building x 2 (Work No. 1A(a)(iv))	27
Safeguard building x 8 (Work No. 1A(a)(v))	50
Nuclear auxiliary building x 2* (Work No. 1A(a)(vi))	47
Access tower x 2 (Work No. 1A(a)(viii))	37
Radioactive waste storage building x 1 (Work No. 1A(a)(ix))	27
Radioactive waste process building x 1 (Work No. 1A(a)(x))	27
Radioactive waste treatment building x 1 (Work No. 1A(a)(xi))	27
Hot laundry building x 1 (Work No. 1A(a)(xii))	27
Hot workshop, hot warehouse, facilities for decontamination x 1 (Work No. 1A(a)(xiii))	27
Effluent tanks and refuelling water tanks x 1 (Work No. 1A(a)(xiv))	27
Emergency diesel generator building x 4* (Work No. 1A(a)(xv))	39
Cooling water discharge weir building (type 1) x 2 (Work No. 1A(a)(xvi))	27
Cooling water discharge weir building (type 2) x 2 (Work No. 1A(a)(xvii))	27
<b>Parameter Zone 1A-2 (reactor buildings)</b>	
Reactor building x 2 (Work No. 1A(a)(i))	72
<b>Parameter Zone 1A-3 (conventional islands)</b>	
Turbine hall x 2 (Work No. 1A(b)(i))	57
Sky bridges x 2 (Work No. 1A(b)(ii))	32
Conventional Island electrical building x 2 (Work No. 1A(b)(iii))	35
Gas insulated switchgear building x 2 (Work No. 1A(b)(iv))	35
Main transformer platforms x 2 (Work No. 1A(b)(v))	35
Unit transformer platforms x 4 (Work No. 1A(b)(vi))	35
Auxiliary transformer platforms x 2 (Work No. 1A(b)(vii))	35
Operational service centre x 1 (Work No. 1A(C))	47
<b>Parameter Zone 1A-4 (cooling water pump house and associated buildings and plant)</b>	
Cooling water pump house x 1 (Work No. 1A(e)(i))	29
Forebay x 1 (Work No. 1A(e)(ii))	22
Outfall pond building x 1 (Work No. 1A(e)(iii))	22

Table 2.2: Parameters for stacks on the main platform.

	Coordinates	Centre maximum radius (m)	Minimum height (mAOD)	Maximum height (mAOD)
Parameter zone S1 – nuclear auxiliary building stack x 1 (Work No. 1A. (vii))	X = 647201 Y = 264182	5	77	79
Parameter zone S2 – nuclear auxiliary building stack x 1 (Work No. 1A. (viii))	X = 647201 Y = 263952	5	77	79
Parameter zone S3 – Emergency diesel generator building stack x 3* (Work No. 1A(a)(xv))	X = 647224 Y = 264307 / X = 647243 Y = 264307 / X = 647259 Y = 264307	5	36.7	39
Parameter zone S4 – Emergency diesel generator building stack x 3* (Work No. 1A(a)(xvi))	X = 647224 Y = 264133 / X = 647243 Y = 264132 / X = 647259 Y = 264132	5	36.7	39
Parameter zone S5 – Emergency diesel generator building stack x 3* (Work No. 1A(a)(xv))	X = 647224 Y = 264075 / X = 647243 Y = 264074 / X = 647259 Y = 264074	5	36.7	39
Parameter zone S6 – Emergency diesel generator building stack x 3* (Work No. 1A(a)(xv))	X = 647224 Y = 263901 / X = 647243 Y = 263900 / X = 647259 Y = 263900	5	36.7	39

Table 2.5: Parameters for Sizewell B relocated facilities and National Grid land.

Building/structure name	Maximum height (mAOD)
<b>Parameter zone 1G (National Grid substation)</b>	
Substation (Work No. 1A(p))	27
Unspecified amount of associated plant, buildings and infrastructure (Work No. 1A(p))	22
<b>Parameter zones 1H, 1I and 1J (Sizewell B relocated facilities)</b>	
Storage, canteen and welfare facilities (1H)* (Work No. 1D(h) and Work No. 1E(g))	29
Administration buildings, to include workshops, civils store, office accommodation and general store (1I)** (Work No. 1D(g) and Work No. 1E(f))	29
Visitor Centre (1J)** (Work No. 1D(f) and Work No. 1E(e))	29
<b>Parameter zone P7 (National Grid pylon)</b>	
National Grid pylon (Work No. 1A(q))	67

\* Emergency diesel generator building exhaust stacks (S3 - S6) will be above the roof height of the building they are attached to.

Building/structure details	Maximum height (mAOD)
Filtering debris recovery pit x 1 (Work No. 1A(e)(iv))	22
Fire-fighting water distribution building x 1 (Work No. 1A(e)(v))	22
<b>Parameter Zone 1A-5 (cooling water pump house and associated buildings and plant)</b>	
Cooling water pump house x 1 (Work No. 1A(e)(i))	29
Forebay x 1 (Work No. 1A(e)(ii))	22
Outfall pond building x 1 (Work No. 1A(e)(iii))	22
Filtering debris recovery pit x 1 (Work No. 1A(e)(iv))	22
Fire-fighting water distribution building x 1 (Work No. 1A(e)(v))	22
<b>Parameter Zone 1A-6 – (waste storage)</b>	
Intermediate level waste store x 1 (Work No. 1A(f))	27
<b>Parameter Zone 1A-7 (spent fuel storage)</b>	
Interim spent fuel store x 1 (Work No. 1A(g))	38
<b>Parameter Zone 1A (ancillary structures) (Work No. 1A(h))</b>	
Buildings, including (but not limited to): emergency equipment store; main access control building; auxiliary administration building; emergency response centre, emergency response energy centre, secondary access control building; meteorological station; demineralisation station; valve room for the demineralisation station; auxiliary boilers; hydrogen storage; oxygen storage; hydrazine storage; chlorination plant; service ventilation building; raw water & potable water storage/supply; degassed water storage tanks; cooling water discharge shaft; chemical products storage; garage for handling materials; oil & grease storage; contaminated tools store; sewage treatment plant; conventional island water tanks; nuclear island water tank; conventional waste storage; transit area for very low and low level waste; service access buildings; underground tunnel highpoints; battery load banks; warehouse; interim spent fuel store equipment storage building; other ancillary buildings.	27
<b>Parameter Zone 1B (BLF)</b>	
Permanent BLF x 1 (Work No. 1A(m))	6
<b>Parameter Zones P1 – P6 (SZC power station pylons)</b>	
Three monopoles x 2 (Zones P1 and P6) (Work No. 1A(a)(viii))	55
Pylon x 1 (Zone P2) (Work No. 1A(d))	75
Pylon x 3 (Zones P3, P4 and P5) (Work No. 1A(d))	59

\* See Table 2.2 for stacks related to these buildings.

Table 2.3: Parameters for other development on the main platform

Details	Minimum crest height (mAOD)	Maximum crest height (mAOD)
<b>Parameter Zone 1C (sea defence)</b>		
Permanent HCDF x 1 (Work No. 1A(o))	12.6	14.6
Permanent HCDF, adapted (Work No. 1A(o))	16.4	18.0
<b>Parameter Zone 1D (Northern mound)</b>		
Northern Mound x 1 (Work No. 1A(e))	12.6	14.6
<b>Parameter Zone 1E (SSSI crossing)</b>		
SSSI crossing x 1 (Work No. 1A(i))	8.6	10.5

Table 2.7: Parameters for buildings, plant and structures in the Upper Abbey Farm area.

Building details	Maximum height (mAOD)
<b>Parameter zone 1F (access control)</b>	
Off-site delivery checkpoint, associated buildings, structures and plant. (Work No. 1A(k))	18
<b>Parameter zone 1G (bat barn)</b>	
Bat barn (Work No. 1A(ff))	8
<b>Parameter zone 1N (ancillary substation compound)</b>	
132kV substation and associated compound. (Work No. 1A(j))	27

NOTES:

1. THE PARAMETER ZONES ARE SPECIFIED ON SHEETS 1-4 - DRAWING Nos: SZC-SZ0100-XX-000-DRW-100043 SZC-SZ0100-XX-000-DRW-100047 SZC-SZ0100-XX-000-DRW-100048 SZC-SZ0100-XX-000-DRW-100127
2. REFER TO SCHEDULE 1 OF DEVELOPMENT CONSENT ORDER (BOOK 3.1) FOR WORKS NUMBERS.

01	SEP 2021	SB	NP	DCO APPLICATION - DEADLINE 6 SUBMISSION (Dated 24 Sept 2021)	SZC Co
REVISION	DATE	DRAWN	CHECKED	REASONS FOR REVISION / COMMENTS	APPROVED

NOT PROTECTIVELY MARKED

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PROJECT:  
 SIZEWELL C

DOCUMENT:  
 APPLICATION DRAWING - FOR APPROVAL REGULATION 5(2)(o)

DRAWING TITLE:  
 MAIN DEVELOPMENT SITE OPERATIONAL PARAMETER PLAN PARAMETER HEIGHTS

DRAWING NO:  
 SZC-SZ0100-XX-000-DRW-100283

REVISION:  
 01

DATE: SEP 2021

DRAWN: SB

SCALE: NTS

SCALE BAR: